"System and Method for Anti-Moiré Imaging

in a One Dimensional Sensor Array"

## ABSTRACT OF THE DISCLOSURE

[0044] A device and process which eliminates potential moiré patterns in digitized images by employing a one-dimensional sensor array and a sampling method of the sensor signals which produces a data set of non-uniformly spaced sensor positions. This allows the spacing of the sensors to avoid having a strong "harmonic" which may interfere with details or harmonics present in the image source, which eliminates the occurrence of moiré patterns and the need for application of image processing to remove moiré patterns. Sensors are non-uniformly spaced along a first axis according to a predetermined scheme or function. Sensors are sampled during scanning according a non-uniform function in order to realize a non-uniform sampling scheme in a second dimension. Linear interpolation is applied to the non-uniformly spaced data set, synthesizing a uniformly-spaced data set for use in common imaging formats and processing.

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